

* **GRP Multi Cleaner**

Date revised: 10.08.2018

1000214

Version: 9 / EU

Master No. M-102

Print date: 08.10.18

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

GRP Multi Cleaner

REACH-Registration no. 01-2119475445-32-XXXX

Use of the substance/mixture

Solvents

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses

At the moment we have no information available for the identified uses. In the presence of these data will be included in the safety data sheet.

Uses advised against

There are no uses have been identified, advised against.

1.3. Details of the supplier of the safety data sheet

Address

Vivochem B.V.

Darwin 5

7609 RL Almelo

Telephone no. +31 546 577774

Fax no. +31 546 577701

Information provided Dept. Quality

by / telephone

E-mail address kwaliteit@vivochem.nl

1.4. Emergency telephone number

National poisoning information center (NVIC) +31 (0) 30 274 8888

Only for the purpose of informing medical personnel in cases of accidental intoxications.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with EC directives.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Further supplemental information

For professional users only.

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

2.3. Other hazards

No special hazards have to be mentioned.

PBT and vPvB

You find the results of PBT and vPvB assessment in section 12.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous ingredients

Methanol

CAS No.	67-56-1			
EINECS no.	200-659-6			
Concentration		<=	0,2	%

Flam. Liq. 2 H225

Acute Tox. 3 H331

Acute Tox. 3 H311

Acute Tox. 3 H301

STOT SE 1 H370

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 1 H370 >= 10

STOT SE 2 H371 <= 3 < 10

Further ingredients

Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate

EINECS no.	906-170-0			
Registration no.	01-2119475445-32-XXXX			
Concentration		>	99	%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam

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Conditions	Worker	Long term	inhalative	Local effects
Concentration	8,3	mg/m ³		

DNEL				
Conditions	General Population	Long term	inhalative	Local effects
Concentration	5	mg/m ³		

Predicted No Effect Concentration (PNEC)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Type of value	PNEC		
Type	Water		
Concentration	0,018		mg/l
Type of value	PNEC		
Type	Saltwater		
Concentration	0,0018		mg/l
Type of value	PNEC		
Type	sporadic release		
Concentration	0,18		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,16		mg/kg TG
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,016		mg/kg TG
Type of value	PNEC		
Type	Soil		
Concentration	0,09		mg/kg TG
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	10		mg/l

8.2. Exposure controls**Respiratory protection in accordance with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149**

In case of insufficient ventilation, wear suitable respiratory equipment. Short term: filter apparatus, Filter A

Hand protection in accordance with DIN EN 374

impermeable gloves
 Appropriate Material Butyl rubber
 Material thickness >= 0,7 mm
 Breakthrough time >= 480 min

Eye protection in accordance with DIN EN 166

Tightly fitting safety glasses

Body protection in accordance with DIN EN 465

Solvent-resistant protective clothing

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Form	liquid
Colour	colourless

Odour

ester-like

Odour threshold

Remarks	No data available
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pH value

Value	5	to	6
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Melting point/freezing point

Value	appr. -25	°C
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Initial boiling point and boiling range

Value	appr. 200	to	230	°C
Pressure	1013	hPa		

Flash point

Value	108	°C
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Evaporation rate

Remarks	No data available
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Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

Lower explosion limit	1,5	%(V)
Upper explosion limit	12,5	%(V)

Vapour pressure

Value	0,07	hPa
Temperature	20	°C

Vapour density

Remarks	No data available
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Relative density

Value	1,09	g/cm ³
Temperature	20	°C

Solubility(ies)

Medium	Water	
Value	appr. 53	g/l
Temperature	20	°C

Partition coefficient: n-octanol/water

log Pow	to	1,4
Method	calculated	

The possibility of bioaccumulation is slight.

Auto-ignition temperature

Value	370	°C
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Decomposition temperature

Remarks	No decomposition if used as prescribed.
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Viscosity

dynamic

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Value	5,3			mPa.s
Temperature	25	°C		

kinematic

Value	2,4	to	2,5	mm ² /s
Temperature	20	°C		

Explosive properties

Remarks No data available

Oxidising properties

Remarks No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Under normal conditions of storage and use is the product stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Oxidising agents, Bases, Acids

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Species	rat (female)		
LD50	>	5000	mg/kg

Acute dermal toxicity (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Species	rabbit		
LD50	>	2000	mg/kg

Acute inhalative toxicity (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Species	rat		
LC50	>	11	mg/l
Duration of exposure	4	h	
Aerosol			

Skin corrosion/irritation

evaluation non-irritant

Serious eye damage/irritation

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evaluation slightly irritant

Sensitization (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

evaluation non-sensitizing

Mutagenicity (Components)

No information available.

Carcinogenicity (Components)

No information available.

Reproduction toxicity (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

No indications of toxic effects were observed in reproduction studies in animals.

Specific Target Organ Toxicity (STOT)**Single exposure**

No data available

Repeated exposure

No data available

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

There is no data available on the product apart from the information given in this subsection.

Fish toxicity (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Species	Fathead minnow (<i>Pimephales promelas</i>)			
LC50	18	to	24	mg/l
Duration of exposure	96	h		
Remarks	Static system			

Daphnia toxicity (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Species	Daphnia magna			
LC50	112	to	150	mg/l
Duration of exposure	48	h		
Remarks	Static system			

Algae toxicity (Components)**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Species	Selenastrum capricornutum			
ErC50	>	85		mg/l
Duration of exposure	72	h		
Remarks	Static system			

12.2. Persistence and degradability**Biodegradability (Components)****Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

Value	87	%
Duration of test	28	d
evaluation	Readily biodegradable (according to OECD criteria)	

12.3. Bioaccumulative potential

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Partition coefficient: n-octanol/water

log Pow to 1,4
 Method calculated
 The possibility of bioaccumulation is slight.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The Substance do not meets PBT-criterions. The Substance do not meets vPvB-criterions.

12.6. Other adverse effects**Behaviour in environment compartments**

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information**Land transport ADR/RID**

Non-dangerous goods

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No information available.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user No information available.

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user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.6. Special precautions for user

user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC *****

VOC (EU)	0	%	0	g/l	VOC (EU)
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SVHC

The product does not contain substances of very high concern (SVHC).

Registration status**Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate**

NCI (Vietnam) listed or meets the requirements

TSCA (USA) listed or meets the requirements

TCSI(Taiwan chemical substance inventory) listed or meets the requirements

IECSC (China) listed or meets the requirements

NZIOC(New Zealand) listed or meets the requirements

ENCS (Japan) listed or meets the requirements

ECL/TCCL (Korea) listed or meets the requirements

PICCS (Philippines) listed or meets the requirements

AICS (Australian Inventory of Chemical Substances) listed or meets the requirements

DSL (Canada) listed or meets the requirements

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

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CLP categories listed in Chapter 3

Acute Tox. 3 Acute toxicity, Category 3
Flam. Liq. 2 Flammable liquid, Category 2
STOT SE 1 Specific target organ toxicity - single exposure, Category 1

Abbreviations

AC: Article Category
ACGIH: American Conference of Governmental Industrial Hygienists
ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADNR: Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
AGW: Arbeitsplatzgrenzwert
AICS: Australian Inventory of Chemical Substances
AOX: adsorbable organically bound halogens
ARW: Arbeitsplatzrichtwert (Germany)
ASTM: American Society for Testing And Materials
ATE: acute toxicity estimates
ATP: Adaptation to technical and scientific progress
AWsV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany)
BAR: Biologischer Arbeitsstoff-Referenzwert
BCF: bioconcentration factor
BetrSichV: Betriebssicherheitsverordnung (Germany)
BG: Berufsgenossenschaft (Germany)
BGW: Biologischer Grenzwert
BLW: Biologischer Leitwert
BOD: biochemical oxygen demand
CAS: Chemical Abstracts Service
cATpE: converted acute toxicity point estimate
CEA: Comité Européen des Assurances
CEFIC: European Chemical Industry Council
CESIO: Comité Européen des Agents de Surface et leurs Intermédiaires Organiques
ChemG: Chemikaliengesetz (Germany)
CMR: Cancerogen Mutagen Reprotoxic
COD: chemical oxygen demand
DFG: Deutsche Forschungsgemeinschaft
DIN: german industry standard
DMEL: Derived minimal effect level
DNEL: Derived no effect level
DOC: dissolved organic carbon
DSL: Canada Domestic Substances List
EAK: Europäischer Abfallkatalog
EbC: inhibitory concentration of growth
EC: effective concentration
EC: European Community
ECETOC: European Centre For Ecotoxicology and toxicology of Chemicals
ECHA: European Chemicals Agency
EEC: European Economic Community
EG: Europäische Gemeinschaft
EH40: List of approved workplace exposure limits
EINECS: European Inventory of Existing Commercial Chemical Substances
EKA: Expositionsäquivalente für krebserzeugende Arbeitsstoffe
EL: effect level
ELINCS: European List of Notified Chemical Substances
EmS: Emergency Schedules

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EN: european standards
ENCS: Japanese Existing and New Chemical Substances Inventory
ERC: Environmental Release Category
ErC: inhibitory concentration of the growth rate
EU: European Union
EWG: Europäische Wirtschaftsgemeinschaft
FDA: Food and Drug Administration
FMVSS: National Highway Traffic Safety Administration
GefStoffV: Gefahrstoffverordnung
GGVSee: Gefahrgutverordnung See
GHS: Globally Harmonized System of classification and Labelling of Chemicals
IARC: International Agency for Research on Cancer
IATA: International Civil Aviation Organization
IBC: Intermediate Bulk Container
IC: inhibitory concentration
ICAO: International Air Transport Association
IECSC: Chinese Chemical Inventory of Existing Chemical Substances
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
INCI: International Nomenclature of Cosmetic Ingredients
IRPTC: International Register of Potentially Toxic Chemicals
ISO: International Organization for Standardization
IUCLID: International Uniform Chemical Information Database
Cat: category
KBwS: Kommission zur Bewertung wassergefährdender Stoffe (Germany)
KECI: Korea Existing Chemicals Inventory
LC: Lethal concentration
LD: Lethal dose
LDLo: lethal dose low
LGK: storage category
LL: Lethal level
LLC: Lowest lethal concentration
LOAEL: Lowest observed adverse effect level
LOEC: Lowest observed effect concentration
LOEL: Lowest observed effect level
Log pow: logarithm of the distribution coefficient n-octanol / water
LQ: limited quantity
MAC: Maximale aanvaarde concentratie (Netherlands)
MAK: Maximale Arbeitsplatz-Konzentration
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)
MEL: Maximum exposure limits
MITI: Ministry of International Trade and Industry (Japan)
n.a.g.: nicht anders genannt
NATEC: Naval Air Technical Data and Engineering Service Command
NCI: National Chemicals Inventory
NLP: No-longer Polymer
NOAEC: No observed adverse effect concentration
NOAEL: no observable adverse effect level
NOEC: No observable effect concentration
NOEL: No observable effect level
NOELR: no observable effect loading rate
NZIOC: New Zealand Inventory of Chemicals
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational exposure limit
OELV: Occupational exposure limit value

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OES: Occupational exposure standards
PBT: Persistent, Bioaccumulative and Toxic
PC: Product Category
PEC: Predicted environmental concentration
PICCS: Philippine Inventory of Chemicals and Chemical Substances
PNEC: predicted no effect concentration
PNEC: Predicted no effect concentration
pOW: Octanol-water partition coefficient
PROC: Process Category
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
RTECS: Registry of Toxic Effects of Chemical Substances
SAE: Society of Automotive Engineers
STP: Sewage treatment plant
SU: Sector of Use
SUVA: Schweizerische Unfallversicherungsanstalt
SVHC: Substances of very high concern
TA Luft: Technische Anleitung zur Reinhaltung der Luft
TCCL: Toxic Chemical Control Law
ThOD: theoretical oxygen demand
TRA: targeted risk assessment
TRG: Technische Regeln Druckgase (Germany)
TRgA: Technische Regeln für gefährliche Arbeitsstoffe(Germany)
TRGS: Technische Regeln für Gefahrstoffe
TRK: Technische Richtkonzentration
TSCA: Toxic Substances Control Act (USA)
UN: United Nations
VbF: Verordnung über brennbare Flüssigkeiten
VCI: Verband der Chemischen Industrie e.V.
VDE: Verband der Elektrotechnik, Elektronik und Informtaionstechnik e.V.
VDI: Verein Deutscher Ingenieure
VLEP: Valeurs Limites d'exposition Professionnelle
VOC: Volatile Organic Compound
vPvB: Very persistent and very bioaccumulative
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe
WEL: Workplace exposure limit
WGK: water hazard class (Germany)
WHO: World Health Organization
WoE: Weight of Evidence

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.